Data Sheet
Fujitsu CELSIUS W510 Workstations

Performance that boosts your productivity

The CELSIUS W510 is a productivity workstation with the latest Intel® Xeon® processors and professional graphics that act together to deliver performance and flexibility. This system is the ideal choice for business environments such as 3D CAD, financial forecasting and digital content creation, giving you the performance to boost your productivity.

Extremely powerful workstations
Get more done in less time
- The fastest available processors, graphics cards and hard disk drives

Noise-reduced system
Silent working enviroment
- Optimized thermal management, low-noise chassis and silent fans

Upgradeability
Minimum downtime in the event of rapid component upgrades
- Screw less access system design

Leading workstation application certification
Maximum compatibility and performance with customer-preferred applications
- Full support for ISV applications and easy integration into existing IT environments

Easy and rapid hard disk changes
Customer can access and replace hard disks screwless at the front
- Cold plug access

Components

Processor	Intel® Core™ i3-2100 processor (2 Cores / 4 Threads, 3.10 GHz, 3 MB, Intel® HD Graphics 2000)
	Intel® Xeon® processor E3-1280 (4 Cores / 8 Threads, 3.50 GHz, 8 MB)
	Intel® Xeon® processor E3-1275 (4 Cores / 8 Threads, 3.40 GHz, 8 MB, Intel® HD Graphics P3000)
	Intel® Xeon® processor E3-1270 (4 Cores / 8 Threads, 3.40 GHz, 8 MB)
	Intel® Xeon® processor E3-1245 (4 Cores / 8 Threads, 3.30 GHz, 8 MB, Intel® HD Graphics P3000)
	Intel® Xeon® processor E3-1240 (4 Cores / 8 Threads, 3.30 GHz, 8 MB)
	Intel® Xeon® processor E3-1235 (4 Cores / 8 Threads, 3.20 GHz, 8 MB, Intel® HD Graphics P3000)
	Intel® Xeon® processor E3-1230 (4 Cores / 8 Threads, 3.20 GHz, 8 MB)
	Intel® Xeon® processor E3-1225 (4 Cores / 4 Threads, 3.10 GHz, 6 MB, Intel® HD Graphics P3000)
	Intel® Xeon® processor E3-1220 (4 Cores / 4 Threads, 3.10 GHz, 8 MB)
Operating system	
Operating system	Genuine Windows® 7 Professional 64-bit Genuine Windows® 7 Professional 32-bit Genuine Windows® 7 Home Premium 64-bit
Operating system compatible	Genuine Windows Vista® Business 64-bit Genuine Windows Vista® Business 32-bit Genuine Windows® XP Professional x64 Edition Genuine Windows® XP Professional Linux
Operating system notes	Red Hat® certification pending Novell® certification pending For some configurations third party drivers are currently not available or configuration restrictions may apply.
Memory modules	2 GB (1 module(s) 2 GB) DDR3, unbuffered, ECC, 1333 MHz, PC3-10600, DIMM
	2 GB (1 module(s) 2 GB) DDR3, unbuffered, non-ECC, 1333 MHz, PC3-10600, DIMM
	4 GB (1 module(s) 4 GB) DDR3, unbuffered, ECC, 1333 MHz, PC3-10600, DIMM
	4 GB (1 module(s) 4 GB) DDR3, unbuffered, non-ECC, 1333 MHz, PC3-10600, DIMM
	8 GB (1 module(s) 8 GB) DDR3, unbuffered, ECC, 1333 MHz, PC3-10600, DIMM
Graphics add on cards (optional)	Ultra-high-end 3D: NVIDIA® Quadro® 5000, 2.5 GB, PCIe x16, DL-DVI-I, 2x DP, DVI, VGA
	High-end 3D: NVIDIA® Quadro® 4000, 2 GB, PCIe x16, DL-DVI-I, 2x DP
	Midrange 3D: ATI FirePro™ V5800, 1 GB, PCIe x16, DL-DVI-I, 2x DP
	Midrange 3D: NVIDIA® Quadro® 2000, 1 GB, PCIe x16, DL-DVI-I, 2x DP
	Entry 3D: ATI FirePro™ V4800, 1 GB, PCIe x16, DL-DVI-I, 2x DP
	Entry 3D: NVIDIA® Quadro® 600, 1 GB, PCIe x16, DL-DVI-I, DP
	Entry 3D: NVIDIA® Quadro® 400 , 512 MB, PCIe x16, 1x DVI-I, DP
	Entry 3D: ATI FirePro™ V3800, 512 MB, PCIe x16, DL-DVI-I, DP
	Professional 2D: NVIDIA® Quadro® NVS 450, 512 MB, PCIe x16, 4 x DP
	Professional 2D: NVIDIA® Quadro® NVS 300, 512 MB, PCIe Gen2 x16, 2x DVI/VGA
	Remote Graphics: CELSIUS RemoteAccess Card, PCIe x1, 2x DVI-I
Notes	NVIDIA® Quadro® 5000, NVIDIA® Quadro® 4000 and ATI FirePro™ V7800 require CELSIUS W510 Power.

Hard disk drives (internal)	SSD SATA, 256 GB, 2.5-inch, full disk encryption	
	SSD SATA, 128 GB, 2.5-inch, full disk encryption	
	SATA III, 10000 rpm, 600 GB, 3.5-inch internal	
	SATA III, 7200 rpm, 1000 GB, 3.5-inch	
	SATA III, 7200 rpm, 500 GB, 3.5-inch	
	SATA III, 7200 rpm, 320 GB, 3.5-inch	
	SATA II, 10000 rpm, 300 GB, 2.5-inch	
	SATA II, 7200 rpm, 2000 GB, 3.5-inch, business critical	
	SATA II, 7200 rpm, 1000 GB, 3.5-inch, business critical	
	SATA II, 7200 rpm, 500 GB, 3.5-inch, business critical	
	HDD SATA, 160 GB, 2.5-inch	
Hard disk notes	One Gigabyte equals one billion bytes, when referring to hard disk drive capacity. 2.5-inch drives will be mounted in the 3.5-inch bays 24/7 ready (business critical HDDS required)	
Drives (optional)	Blu-ray Disc™ Triple Writer	
	DVD-ROM	
	DVD Super Multi	
	MultiCard Reader 20in1, USB 2.0, 3.5-Inch	
	MultiCard Reader 20in1 USB 3.0 front con., 3.5-Inch	
Interface add on cards/components (optional)		
	WLAN III, 802.11g/Draft-n (Windows only)	
	USB 3.0 PCIe x1	
	Parallel Interface	
	Gigabit Ethernet PCIe x1, DS	
	FireWire PCI-Card IEEE1394	
	eSATA Interface	
	Dual serial card PCIe x1, powered	
	Dual serial card PCIe x1	
Base unit	CELSIUS W510	CELSIUS W510power
Mainboard		
Mainboard type	D3067	
Formfactor	ATX	
Chipset	Intel® C206	
Processor socket	LGA 1155	
Processor quantity maximum	1	
Memory slots	4 DIMM (DDR3) ECC/non-ECC	
Supported capacity RAM (max.)	32 GB	
Memory frequency	1333 MHz	
Memory notes	In configurations with 4 GB and more the visible memory may be reduced to approximately 3.5 GB or less (for 32-bit operating systems) and configurations with 8 GB the visible memory may be reduced to approximately 7.5 GB or less (depending on system configuration).	
LAN	10/100/1000 MBit/s Intel® 82579 LM	
Integrated WLAN	Optional (for Windows only)	
Audio codec	Conexant CX20642	
Audio features	5.1 surround sound, High Definition audio, Internal speaker supports audio playback	
I/O Controller		
Serial ATA total	6	
thereof SATA III	2	

I/O Controller	
thereof eSATA	1, optional
SATA RAID support	0, 1, 10, 5
Interfaces	
Audio: in (rear)	2
Audio: out (rear)	1
Audio: in	1
Audio: out	1
Internal speakers	1
USB 2.0 total	14
USB front	4
USB rear	8
USB internal	1 + 1
VGA	1 (depends on processor, via DVI to VGA adapter)
DisplayPort	1 (depends on processor)
DVI	1 (depends on processor)
Serial (RS-232)	1, (9 pin)
Mouse / Keyboard (PS/2)	2
Ethernet (RJ-45)	1
Parallel	1, optional
eSATA	1, optional
Interface Module notes	Anytime USB charge functionality
Drive bays	
Drive bays total	8
3.5-inch internal bays	4
3.5-inch external bays	2
5.25-inch external bays	2
Slots	
PCI-Express 2.0 x16	1 x (312 mm) full height
PCI-Express 2.0 x4 (mech. x16)	1 x (210 mm) full height
PCI-Express x1	2 x (312 mm) full height
PCI (32-bit / 33 MHz)	3 x (312 / 170 mm) full height
Graphics on board	
Shared video memory	up to 1759 MB
TFT resolution (VGA)	1024 x 768 pixel 1280 x 1024 pixel 1360 x 768 pixel 1440 x 900 pixel 1600 x 900 pixel 1600 x 1200 pixel 1680 x 1050 pixel 1920 x 1080 pixel 1920 x 1200 pixel
TFT resolution (DVI)	1360 x 768 pixel 1440 x 900 pixel 1600 x 900 pixel 1680 x 1050 pixel 1920 x 1080 pixel 1920 x 1200 pixel

Graphics on board		
TFT resolution (DisplayPort)	1360 x 768 pixel 1440 x 900 pixel 1600 x 900 pixel 1680 x 1050 pixel 1920 x 1080 pixel 1920 x 1200 pixel 2560 x 1440 pixel 2560 x 1600 pixel	
Graphics features	Dual display support DirectX 10.1 HDCP support Open GL® 3.0 For multi monitoring mode, graphics card and integrated graphics run in parallel (Microsoft® Windows 7® only)	
Graphics notes	Tested resolutions, depending on display type additional resolutions and frequencies possible Shared memory depending on main memory size and operating system Resolution (color depth up to 32 Bit/pixel) For TFT we recommend using 60Hz	
Electrical values		
Power efficiency note	power supply efficiency (at 230V; 20% / 50% / 100% load) : 87% / 90% / 87%	
Rated voltage range	100 V - 240 V	
Rated frequency range	50 Hz - 60 Hz	
Operating voltage range	90 V - 264 V	
Operating line frequency range	47 Hz - 63 Hz	
Max. output of single power supply	300 W (CELSIUS W510); 500 W (CELSIUS W510power)	
Noise for standard configuration (HDD, ODD, FDD)		
Noise emission	According to ISO9296 (LpAm at bystander position)	According to ISO9296 (LpAm at bystander position)
Idle mode	18 dB(A)	18 dB(A)
Office mode	18 dB(A)	18 dB(A)
Noise notes / description	Actual noise emissions may vary depending on configuration	Actual noise emissions may vary depending on configuration
Dimensions / Weight / Environmental		
Dimensions (W x D x H)	186 x 481 x 430 mm	
Operating position	Vertical / horizontal	
Weight	16 kg	
Weight notes	Actual weight may vary depending on configuration	
Operating ambient temperature	10 - 35°C	
Operating relative humidity	5 - 85 % (relative humidity)	
Compliance		
Product	CELSIUS W510	CELSIUS W510power
Model	MTB-D3067	
Germany	GS in progress	
Europe	CE	
USA/Canada	FCC Class B cCSAus	
Global	RoHS (EU & China) ENERGY STAR® 5.0 in progress EPEAT® in progress (dedicated regions) Medical EMC standard IEC60601-1-2 in combination with medical kit	
Compliance notes	Energy Star compliance may vary depending on actual configuration	
Compliance link	https://sp.ts.fujitsu.com/sites/certificates/default.aspx	

Security	
Physical security	Kensington Lock support Eye for padlock Seal option Intrusion switch Optional: Integrated cabinet lock
System security	Boot sector virus protection Write protect option for the Flash EPROM Embedded security (TPM 1.2) Control of all USB interfaces External USB ports can be disabled separately Control of external interfaces
User security	Hard disk password User and supervisor BIOS password Optional: Access protection via SmartCard reader Optional: SmartCase Logon+
Additional Software	
Additional software (optional)	Recovery DVD for Windows® Drivers & Utilities DVD (DUDVD) CyberLink PowerDVD BD (playback software for Blu-ray Disc™, only with Blu-ray Disc™ drive / Blu-ray playback is not supported under Windows XP if the system runs on Intel onboard graphics)
Additional software (included as a CD/ DVD)	Norton Internet Security (incl. Firewall)
Manageability	
Manageability features	DeskUpdate Driver management
Manageability type	DeskView 10.x client management including:
DeskView features	On/Offline remote client management Detailed system inventory management and reports BIOS Management Remote power management System notifications Security Remote Control DeskView Helpdesk Integration
Supported standards	WMI BootP (made4you) PXE
Manageability link	http://ts.fujitsu.com/solutions/it_infrastructure_solutions/manageability/featurefinder.html
Input device / components	
	Optical USB tilt wheel mouse
Input devices (optional)	Optical USB/PS2 tilt wheel mouse Space Explorer USB Keyboard

Warranty
Maintenance and Support Services - the perfect extension

Service Weblink	http://ts.fujitsu.com/Supportservice

More information

Fujitsu platform solutions

In addition to Fujitsu CELSIUS W510, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

Dynamic Infrastructures
With the Fujitsu Dynamic Infrastructures approach,Fujitsu offers a full portfolio of IT products, solutions and services, ranging from clients to datacenter solutions, Managed Infrastructure and Infrastructureas-a-Service. How much you benefit from Fujitsu technologies and services depends on the level of cooperation you choose. This takes IT flexibility and efficiency to the next level.

Computing Products
www.fujitsu.com/global/services/computing/

Software
www.fujitsu.com/software/

More information

Learn more about Fujitsu CELSIUS W510, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.
http://ts.fujitsu.com/celsius

Fujitsu green policy innovatiohn

Fujitsu Green Policy Innovation is our worldwide project for reducing burdens on the environment.
Using our global know-how, we aim to resolve issues of environmental energy efficiency through IT.
Please find further information at http://www.fujitsu.com/global/about/environment/

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